

SITE NUMBER: C-L1-05
LOCAL NAME: Root Stock Channel
WRIA: 20.0175D

NORTH COAST OFF CHANNEL SITE INVENTORY DATA

RIVER SYSTEM: Calawah R. **DATE:** 3/20/90 **OBSERVER:** Nettnin

CHANNEL TYPE: Terrace trib. (Wall based spring channel)

TRIBUTARY TO: Calawah R. (20.0175)

SITE LOCATION: L.B. @ River Mile: 1.2 (WDF)

LEGAL DESCRIPTION:

	UPPER END	LOWER END	RIVER TEMP
<u>WATER TEMP:</u>	48 F	48 F	43 F
<u>FLOW (CFS):</u>	≤ 0.25	5 - 6	

SUBSTRATE TYPE: Most of C-L1-05 has a sandy bottom. Where the gradient increases there is some exposed gravel.

SITE SIZE: **Length-** 420 m
 Width- Water surface = 1-3 m
 Channel = 4-7 m
 Depth- 9-15 cm

WATER SOURCE: Springs

DIRECTIONS TO SITE: Head north on Hwy 101 to the city of Forks. Proceed to the downtown area and then turn left (west) onto Bogachiel Way (just past Pay & Save Grocery). Stay on Bogachiel Way about 2 miles to a sharp turn to the left. There is a road straight ahead, take this road. There is a gate on this road and a key can be obtained at the Rayonier Timber office. Take a right after passing through the gate and continue for 0.8 miles. Take the left and continue for 0.5 miles to a T-junction. Take a right (steep hill) and follow to the bottom of the hill ~0.2 mile. There are three trails to the right and they all go to the project site. The pond to the left is a different system.

FISH ACCESS AND CURRENT USE: C-L1-05 has unlimited fish access. It enters the river on a glide and has sufficient water for attraction. Two coho fry were caught in a minnow trap in the middle reach. A redd and fish bones were observed in this same area.

FLOODING POTENTIAL: Low

LANDOWNER: Unknown at this time. Probably ITT Rayonier.

COMMENTS & RECOMMENDATIONS: C-L1-05 is a rather straight channel which seems to lack slow water rearing areas. The lower end of the channel is incised (6 to 8 ft banks). There is a large amount of spring water entering C-L1-05. Boulders, LOD and aquatic vegetation create the majority of the cover. Mature alder and second growth conifer make up most of the shade producing trees.

Recommend installing controls to increase rearing area. Excavation of a pond in the upper end of C-L1-05 may also be feasible. Machine access is possible. The access road is currently water barred.

GPS: (decimal degrees, Datum WGS84): 12/02
upper project - N47.94465, W124.43812
lower project - N47.94332, W124.43950

NORTH COAST OFF CHANNEL SURVEY
SUBSEQUENT SITE EVALUATION FORM

River System: Calawah

Site No.: C-L1-05

WRIA: 20.0175D

Site Name: Root Stock

DATE: Summer 1997

OBSERVER: King

During September 1997, two pools were excavated in the upper end of this channel using heavy equipment. A total of seven pools and seven weirs were proposed for this site but after the initial two were dug it was determined that too much damage to the existing habitat was being done to justify continuing with the excavation. As a result, we will reevaluate the project and look at still installing the plank controls to pool water without additional heavy equipment work.

DATE: 10-22-98

OBSERVER: Nettnin

-Seven weirs were installed in the upper end. They are of varying lengths and design. The basic design is Zig Zag.

-Temperature was 9.5 C

DATE: 2-3-99

OBSERVER: Darrow

MINNOW TRAPPING REPORT

TRAP	DATE SET	TEMP	DATE PULLED	TEMP	COHO	CATCH			COTTID
						TROUT			
						RBT	CUTT	0+	
1	2/2	8.0°C	2/3	8.0°C	0	6	2	0	0
2	2/2	8.0°C	2/3	8.0°C	9	10	0	0	0
3	2/2	8.0°C	2/3	8.0°C	18	0	0	0	0
4	2/2	8.0°C	2/3	8.0°C	0	2	0	0	5
5	2/2	8.0°C	2/3	8.0°C	13	2	0	0	7
6	2/2	8.0°C	2/3	8.0°C	7	2	0	0	8
7	2/2	8.0°C	2/3	8.0°C	7	11	0	0	1
8	2/2	8.0°C	2/3	8.0°C	20	11	0	0	8
9	2/2	8.0°C	2/3	8.0°C	12	7	0	0	7
10	2/2	8.0°C	2/3	8.0°C	25	0	0	0	8
TOTALS:					111	51	2	0	44

COMMENTS:

- Trap 1 was placed downstream ~ 30 m of the furthest downstream control (control 1).
- Trap 2 was placed about half way between trap #1 and the next upstream control (control 2).
- Trap 3 was placed ~ 24 m upstream of control 2.
- Trap 4 was placed ~ 17 m downstream of control 3.
- Trap 5 was placed about half way between controls 3 and 4.
- Trap 6 was placed between controls 4 and 5.
- Trap 7 was placed between controls 5 and 6.
- Trap 8 was placed between controls 6 and 7.
- Trap 9 was placed ~ 20 m upstream of control 7, the furthest upstream control.
- Trap 10 was placed ~ 75 m upstream of control 7.

NORTH COAST OFF CHANNEL SURVEY
SUBSEQUENT SITE EVALUATION FORM

River System: Calawah

Site No.: C-L1-05

WRIA: 20.0175D

Site Name: Root Stock

ROOTSTOCK SPRINGS - COHO FORK LENGTHS (mm) 2/99									
Trap 2	85	90	94	73	85	93	94	95	80
Trap 3	106	96	101	93	80	87	70	74	79
	78	75	93	92	85	85	75	78	85
Trap 5	84	85	75	79	78	80	89	94	80
	86	68	88	78					
Trap 6	88	91	79	86	75	88	74		
Trap 7	87	91	94	92	97	73	100		
Trap 8	82	88	90	84	85	85	83	92	71
	95	102	93	70	92	81	84	88	77
	71	79							
Trap 9	108	96	100	90	86	90	107	93	81
	89	96	95						
Trap 10	78	80	87	88	78	76	92	89	83
	92	77	89	75	86	75	91	88	87
	81	65	88	90	86	75	76		
AVG	85.54	STD	8.652	MIN	65	MAX	108	COUNT	111

DATE: 3/23/99

OBSERVER: Darrow

Project looked great, lots of aquatic vegetation. Weirs were all intact but there was some minor seepage around a weir or two. Good flow - lots of water.

NORTH COAST OFF CHANNEL SURVEY
SUBSEQUENT SITE EVALUATION FORM

River System: Calawah

Site No.: C-L1-05

WRIA: 20.0175D

Site Name: Root Stock

DATE: 5-12-99

OBSERVER: Darrow

MINNOW TRAPPING REPORT

TRAP	DATE SET	TEMP	DATE PULLED	TEMP	COHO	CATCH			COTTID
						TROUT			
						RBT	CUTT	0+	
1	5/11	8.5°C	5/12	9.0°C	0	0	1	0	8
2	5/11	8.5°C	5/12	9.0°C	1	1	1	0	26
3	5/11	8.5°C	5/12	9.0°C	4	3	1	0	7
4	5/11	8.5°C	5/12	9.0°C	3	1	2	0	8
5	5/11	9.0°C	5/12	9.0°C	5	2	0	0	23
6	5/11	9.0°C	5/12	9.0°C	3	0	3	0	16
7	5/11	9.0°C	5/12	9.0°C	0	0	2	0	6
8	5/11	9.0°C	5/12	9.0°C	2	0	3	0	9
9	5/11	9.0°C	5/12	9.0°C	3	1	4	0	0
10	5/11	9.0°C	5/12	9.0°C	0	1	0	0	0
TOTALS:					21	9	17	0	103

COMMENTS:

- Trap 1 was placed ~100m above uppermost control.
- Trap 2 was placed ~25m above top control.
- Trap 3 was placed ~1/2 way between top and 2nd control.
- Trap 4 was placed ~ 3 m upstream of control 3.
- Trap 5 was placed about half way between controls 3 and 4.
- Trap 6 was placed between controls 4 and 5.
- Trap 7 was placed ~25 m downstream of control # 5.
- Trap 8 was placed ~40 m downstream of trap # 7.
- Trap 9 was placed ~ 30 m upstream of control # 6.
- Trap 10 was placed ~ 20 m downstream of control # 6.

ROOTSTOCK SPRINGS - COHO FORK LENGTHS (mm) 2/99									
Trap 2	103								
Trap 3	85	89	86	77					
Trap 4	84	91	92						
Trap 5	76	77	105	82	84				
Trap 6	103	97	94						
Trap 8	90	92							
Trap 9	100	95	87						
AVG	89.95	STD	8.611	MIN	76	MAX	105	COUNT	21

NORTH COAST OFF CHANNEL SURVEY
SUBSEQUENT SITE EVALUATION FORM

River System: Calawah

Site No.: C-L1-05

WRIA: 20.0175D

Site Name: Root Stock

DATE: 12/2/99

OBSERVER: Nettnin

Project is in good condition. No fish were observed.

DATE: 4/22/00

OBSERVER: Darrow

System looked great. Water parsley has naturalized in the control bays. Controls were clear of obstructions. Flow was about 1.25 CFS at the upper end and 2+ CFS at the lower end. Observed smolts and trout darting for cover in the mid area.

DATE: 11/8/00

OBSERVER: Darrow

This system just continues to look better and better. Water is very clear. Just a few sticks on the controls. Observed a few salmonids.

DATE: 4/22/01

OBSERVER: Darrow

Lots of water perking off base of hill. Everything looked fine. Observed a few salmonids in the mid to lower areas of the system.

DATE: 2/7/02

OBSERVER: Nettnin

Everything looked fine. Saw two redds.

DATE: 5/5/02

OBSERVER: Darrow

System looks excellent. Algae growth has provided additional cover. No leaks, nor blockages were encountered at the controls. Weather was not optimum for fish observations.

DATE: 12/6/02

OBSERVER: Nettnin

Project looks great. Observed juvenile fish in the pools.

GPS: (decimal degrees, Datum WGS84):

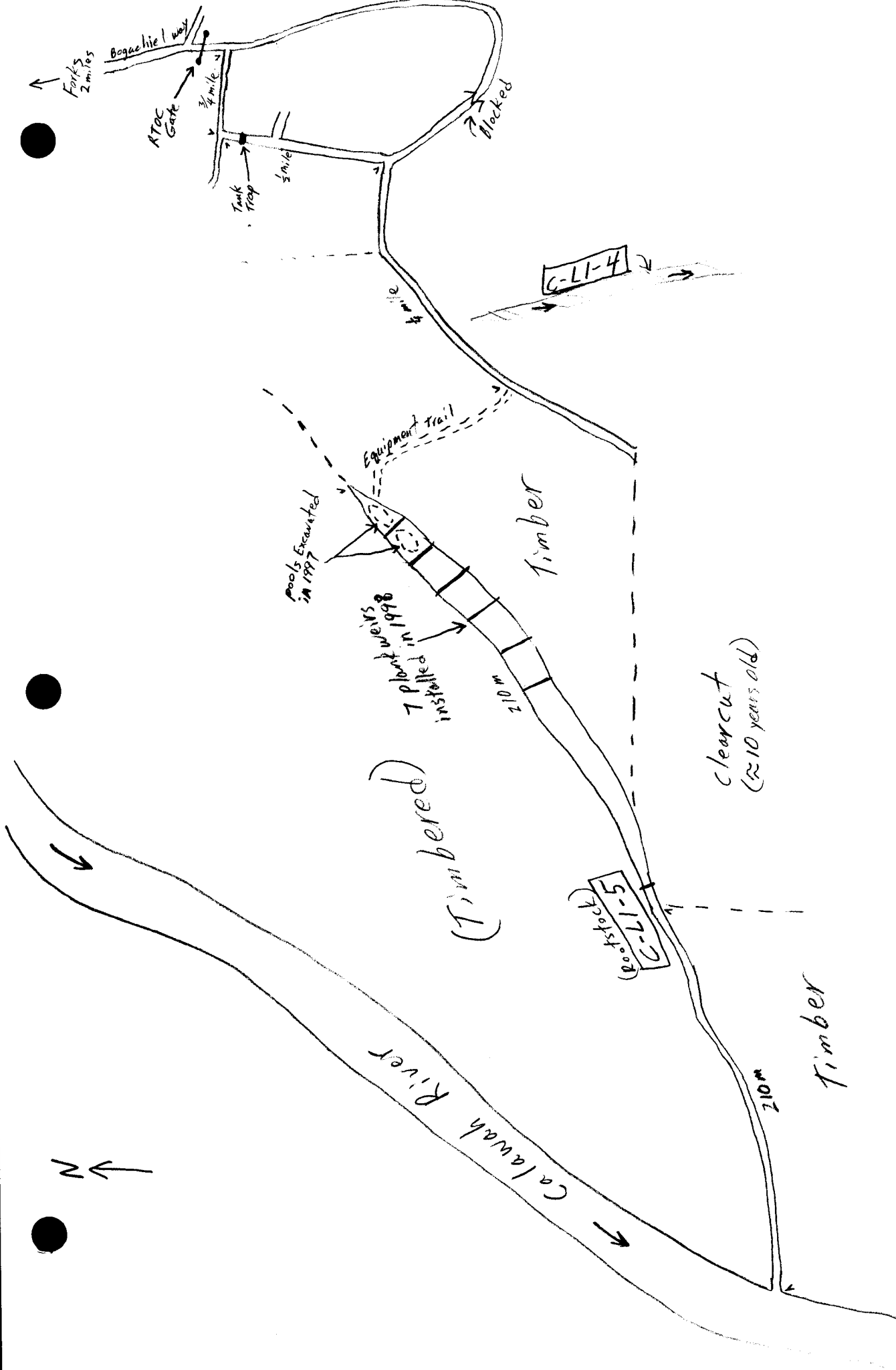
upper project - N47.94465, W124.43812

lower project - N47.94332, W124.43950

DATE: 2/13/03

OBSERVER: King

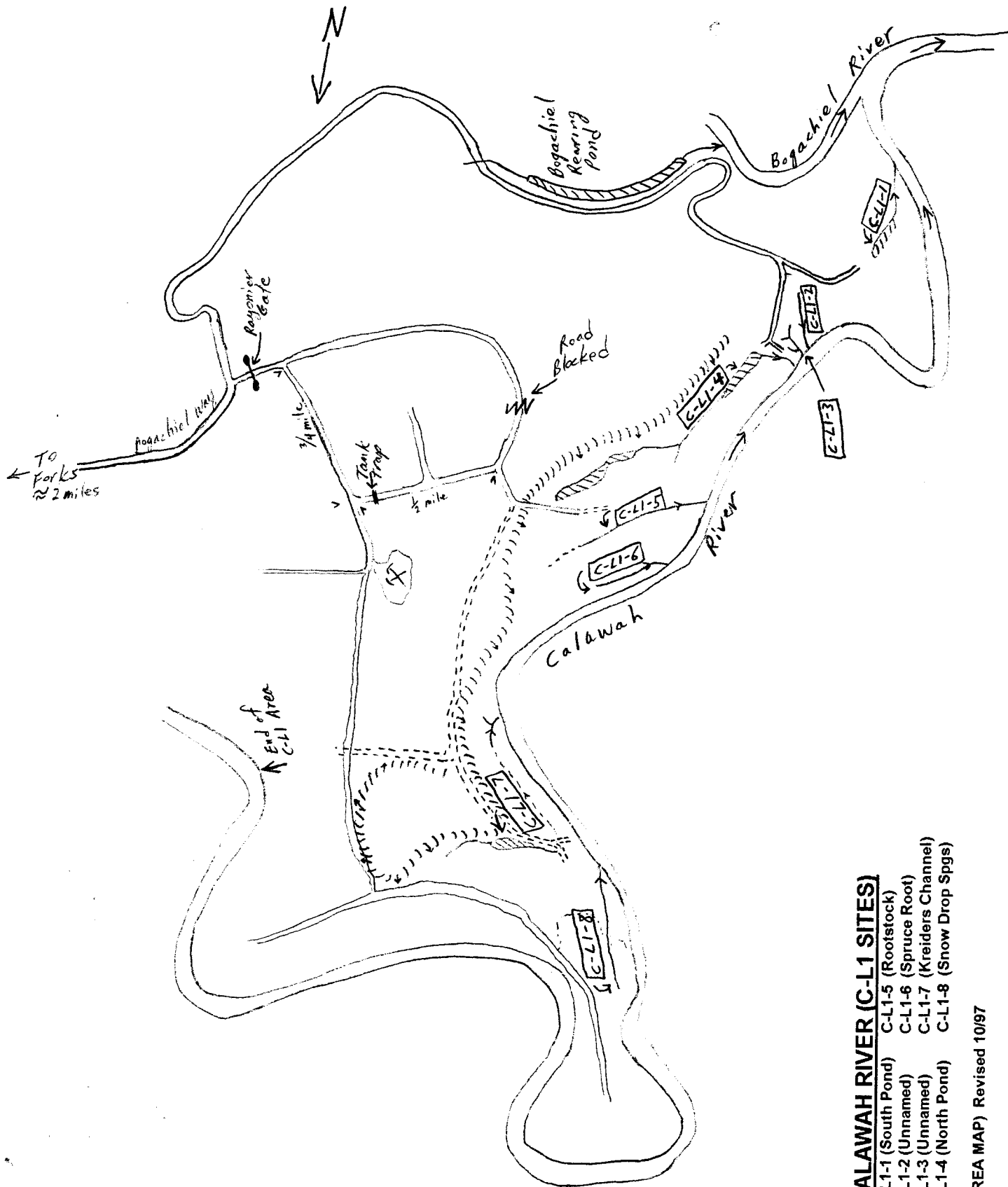
Observed several redds from project to mouth. Project looks good.



CALAWAH RIVER
Area C-L1

Site C-L1-05 (Rootstock Springs)

(Revised 10/98)



CALAWAH RIVER (C-L1 SITES)

C-L1-1 (South Pond)	C-L1-5 (Rootstock)
C-L1-2 (Unnamed)	C-L1-6 (Spruce Root)
C-L1-3 (Unnamed)	C-L1-7 (Kreiders Channel)
C-L1-4 (North Pond)	C-L1-8 (Snow Drop Spgs)

(AREA MAP) Revised 10/97

Calawah R.
Site: C-L-1
Site map
2/90

